

Scanning Range Sensor

Abstract

A scanning range sensor includes an outer cover having a transparent window that is horizontally annular, a vertical type cylindrical rotary member inside the outer cover, a light receiving window with an optical lens of the cylindrical rotary member, a light projector between the outer cover and the cylindrical rotary member, an optical system for leading light from the light projector along the direction of the rotational axis of the cylindrical rotary member by the mirrors on the inner surface of the cylindrical rotary member, a photodetector that within the interior of the cylindrical rotary member is fixed and arranged separately from the cylindrical rotary member so as to coincide with the rotational axis of the cylindrical rotary member and is connected to a distance computation circuit, and a reflecting mirror and scanning mirror along the rotational axis of the cylindrical rotary member.